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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

04/21/2004

KANESAKA & TAKEUCHI 1423 Powhatan Street Alexandria, VA 22314 EXAMINER
MULPURI, SAVITRI

PAPER NUMBER

ART UNIT

DATE MAILED: 04/21/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/716.601	11/20/2003	Mitsuhiko Ogihara	BD0305T	7190

TITLE OF INVENTION: SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	07/21/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (703) 746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks I through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block I, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

7590

04/21/2004

KANESAKA & TAKEUCHI 1423 Powhatan Street Alexandria, VA 22314 Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below.

(Depositor's name (Signature (Date date indicated below))

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nonprovisional	nonprovisional NO \$1330			\$300	\$1630	07/21/2004
EXAMINER		ART UNIT		CLASS-SUBCLASS		
MULPURI, SAVITRI			312 438-033000		_	
Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.				nting on the patent front page, up to 3 registered patent a R, alternatively, (2) the name ing as a member a registered	of a single attorney or 2	
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			agent) and attorneys will be pri			

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or	categories (will not be printed on the patent);	☐ individual	□ corporation or other private group entity	☐ government
4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):			
☐ Issue Fee	☐ A check in the amo	ount of the fee(s)	is enclosed.	
☐ Publication Fee	☐ Payment by credit	card. Form PTO-	2038 is attached.	
☐ Advance Order - # of Copies	The Director is he Deposit Account Nur	reby authorized	by charge the required fee(s), or credit any (enclose an extra copy of this	overpayment, to form).
Director for Patents is requested to apply the Issu	e Fee and Publication Fee (if any) or to re-apply	any previously p	oaid issue fee to the application identified abo	ove.
(Authorized Signature)	(Date)			
NOTE; The Issue Fee and Publication Fee (if other than the applicant; a registered attorney interest as shown by the records of the United S	or agent; or the assignee or other party in			
This collection of information is required by 3 obtain or retain a benefit by the public which application. Confidentiality is governed by 35 L estimated to take 12 minutes to complete, inclu completed application form to the USPTO. Ti case. Any comments on the amount of time suggestions for reducing this burden, should b Patent and Trademark Office, U.S. Depart 22313-1450. DO NOT SEND FEES OR CO.	is to file (and by the USPTO to process) and J.S.C. 122 and 37 CFR 1.14. This collection is ding gathering, preparing, and submitting the me will vary depending upon the individual you require to complete this form and/or esent to the Chief Information Officer. U.S.			

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7	590	04/21/2004		EXAM	INER
KANESAKA & TAKEUCHI 1423 Powhatan Street				MULPURI	, SAVITRI
Alexandria, VA 22				ART UNIT	PAPER NUMBER
				2812	· · · · · · · · · · · · · · · · · · ·
				DATE MAIL ED: 04/21/200	1

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

كمعا

·		Application No.	Applicant(s)
	* * * * * * * * * *	10/716,601	OGIHARA ET AL.
Notic	of Allowability	Examin r	Art Unit
		Savitri Mulpuri	2812
All claims being allowable herewith (or previously ma NOTICE OF ALLOWABII	NG DATE of this communication appear, PROSECUTION ON THE MERITS IS ailed), a Notice of Allowance (PTOL-85) LITY IS NOT A GRANT OF PATENT Reports of the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apport or other appropriate communication IGHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. X This communicatio	n is responsive to <u>election and exaamd</u>	<u>14/16/04</u> .	
2. 🛛 The allowed claim(s) is/are <u>1-19</u> .		
3. 🛭 The drawings filed	on <u>11/20/2003</u> are accepted by the Exa	miner.	•
a) All b) 1. Certifie 2. Certifie 3. Copies	is made of a claim for foreign priority un Some* c) None of the: ed copies of the priority documents have ed copies of the priority documents have of the certified copies of the priority documents do ational Bureau (PCT Rule 17.2(a)). not received:	be been received. be been received in Application No	
noted below. Failure to	MONTHS FROM THE "MAILING DATE" timely comply will result in ABANDONN PERIOD IS NOT EXTENDABLE.		complying with the requirements
	ATH OR DECLARATION must be subm NT APPLICATION (PTO-152) which give		
(a) ☐ including chan 1) ☐ hereto (b) ☐ including chan Paper No./Mai Identifying indicia such	AWINGS (as "replacement sheets") must ges required by the Notice of Draftspers or 2) to Paper No./Mail Dateges required by the attached Examiner Date as the application number (see 37 CFR 1 and sheet(s) should be labeled as such in the sheet(s) should be labeled as sheet(s) sheet(s) should be labeled as sheet(s) sheet	son's Patent Drawing Review (PTO s Amendment / Comment or in the C .84(c)) should be written on the drawi	Office action of ngs in the front (not the back) of
7. DEPOSIT OF and attached Examiner	d/or INFORMATION about the depor's comment regarding REQUIREMENT	sit of BIOLOGICAL MATERIAL I FOR THE DEPOSIT OF BIOLOGIC	must be submitted. Note the AL MATERIAL.
3. ⊠ Information Discloso Paper No./Mail Dat	on's Patent Drawing Review (PTO-948) ure Statements (PTO-1449 or PTO/SB/0 te <u>11/20/2003</u> nt Regarding Requirement for Deposit	6. ⊠ Interview Summary Paper No./Mail Da 08), 7. ⊠ Examiner's Amendi	te ment/Comment ent of Reasons for Allowance Savitri Mulpuri Primary Examiner
			Art Unit: 2812

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr Satoru Tekeuchi on 4/16/04.

Cancel non- elected product claims 20-23.

The application has been amended as follows: The following is an examiner's statement of reasons for allowance: prior art neither teach nor suggest forming plurality of etching grooves in the thin film by etching a region of the semiconductor thin film, which is not covered by the protection layer and followed etching the separation layer, adhering discrete thin films onto the first substrate and removing the protection layer.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication should be directed to Savitri Mulpuri at telephone number 571-272-1677

Page 3

Savitri Mulpuri Primary Examiner Art Unit 2812 Form PTO-948 Application No. 10/716601

PATENT DRAWING REVIEW

Under USPTO Standards 37 CFR 1.84 and 1.152

The drawings, filed on 11/20/2003, are acceptable by USPTO Standards.

1. DRAWINGS. 1.84(a).	9. SCALE. 1.84(k).
Color drawings are not acceptable until petition is	Scale not large enough, details not clear.
granted. Fig(s).	Fig(s).
Three sets of color drawings are required.	
Fig(s).	10. CHARACTER OF LINES, NUMBERS,
Pencil, non-black ink are not permitted.	LETTERS. 1.84(I).
Fig(s).	Lines, numbers, letters not uniform, clean,
	and well defined, (poor quality).
2. PHOTOGRAPHS. 1.84(b).	Fig(s).
Poor quality photos. Fig(s).	
	11. SHADING. 1.84(m).
3. TYPE OF PAPER. 1.84(e).	Solid black shading not permitted. Fig(s).
Paper not flexible, strong, white, and durable.	
Fig(s).	12. REFERENCE CHARACTERS:
Erasures, alterations, over writings, interlineations, folds,	NUMBERS, LETTERS. 1.84(p).
copy machine marks not accepted.	Characters not plain, legible.
Fig(s).	Fig(s).
4. SIZE OF PAPER. 1.84(f). Acceptable paper sizes:	Characters not oriented in the same direction as the
21.0cm x 29.7cm (A4 International Standard Size)	view. Fig(s).
21.6cm x 27.9cm (US Letter size, 8.5" x 11")	English required. Fig(s).
All drawing sheets are not the same size.	Characters must be at least .32cm (1/8") height.
Sheet(s)	Fig(s).
Paper size not acceptable. Fig(s).	12 1 FAD FINES 194(a)
TATE DOWN 1 04/ NA A 11/2 marriage	13. LEAD LINES. 1.84(q). Crossed lead lines not allowed. Fig(s).
5. MARGINS. 1.84(g). Acceptable margins:	Missing lead lines. Fig(s).
Top 2.5cm – Left 2.5cm – Right 1.5cm – Bottom 1cm	I wissing read titles. Fig(s).
Margins not acceptable. Fig(s).	14. PAGE NUMBERING. 1.84(t).
☐ Top ☐ Left ☐ Right ☐ Bottom	Drawing sheets not properly numbered. Fig(s).
☐ Top ☐ Left ☐ Right ☐ Bottom	Drawing sheets not property numbered. Fig. 69.
6. VIEWS. 1.84(h).	15. VIEW NUMBERING. 1.84(u).
REMINDER: Specification may need to be revised in	View not numbered consecutively, in Arabic
correspondence with the drawing changes.	numbers, begin with number 1.
Views not labeled separately or properly.	Fig(s).
Fig(s).	- 5(-).
1.500).	16. DESIGN DRAWINGS. 1.152.
7. SECTIONAL VIEWS. 1.84(h)(3).	Surface shading not appropriate. Fig(s).
Sectional designation should be in Arabic or Roman	Solid black shading not permitted. Fig(s).
number. Fig(s).	
8. ARRANGEMENT OF VIEWS. 1.84(i).	
Different figures must be clearly separated.	
Fig(s).	

COMMENTS:

Date: 4/16/2004

Tel. No.: (703) 305-8404

Attachment to Paper No.

Draftsman: Son Lam